

TDMS No. 20701 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 03/19/2010

Test Type: 90-DAY

Nanoscale material (Fullerene-C60 1 micron)

Time Report Requested: 08:59:09

Route: RESPIRATORY EXPOSURE NASAL

CAS Number: 99685-96-8

First Dose M/F: 11/05/07 / 11/05/07

Species/Strain: MICE/B6C3F1

Lab: BNW

F1_M3

C Number: C20701
Lock Date: 02/24/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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B6C3F1 MICE MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

Disposition Summary

Animals Initially In Study

10

10

10

10

Early Deaths

Moribund Sacrifice

1

Survivors

Terminal Sacrifice

10

9

10

10

Animals Examined Microscopically

10

10

10

10

ALIMENTARY SYSTEM

Liver

(10)

(1)

(0)

(10)

Inflammation, Granulomatous

1 [1.0]

Necrosis

1 [1.0]

Stomach, Forestomach

(10)

(1)

(0)

(10)

Hyperplasia, Squamous

1 [2.0]

Ulcer

1 [1.0]

CARDIOVASCULAR SYSTEM

Heart

(10)

(1)

(0)

(10)

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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B6C3F1 MICE MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial

(6)

(4)

(5)

(9)

Pigmentation

2 [1.0]

1 [1.0]

2 [1.0]

9 [2.9]

Lymph Node, Mandibular

(5)

(1)

(0)

(4)

Lymph Node, Mesenteric

(9)

(1)

(0)

(10)

Spleen

(10)

(1)

(0)

(10)

Thymus

(10)

(1)

(0)

(10)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx

(10)

(9)

(10)

(10)

Metaplasia, Squamous

1 [1.0]

5 [1.0]

9 [1.1]

Squamous Epithelium, Hyperplasia

1 [2.0]

Lung

(10)

(10)

(10)

(10)

Hemorrhage

1 [1.0]

Inflammation, Chronic Active

10 [1.0]

10 [1.9]

Pigmentation

4 [1.0]

10 [2.5]

10 [3.0]

Alveolus, Infiltration Cellular, Histiocyte

10 [2.5]

10 [3.0]

Nose

(10)

(1)

(0)

(10)

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B6C3F1 MICE MALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

Olfactory Epithelium, Accumulation, Hyaline
Droplet

1 [1.0]

Respiratory Epithelium, Accumulation, Hyaline
Droplet

1 [1.0]

SPECIAL SENSES SYSTEM

Harderian Gland
Inflammation, Acute(10)
7 [1.9]

(1)

(0)

(10)
7 [1.4]

URINARY SYSTEM

Kidney
Nephropathy
Papilla, Infiltration Cellular, Polymorphonuclear
Renal Tubule, Necrosis(10)
1 [1.0]
1 [2.0]
1 [2.0](10)
2 [1.0]

(10)

1 [1.0]

(10)
2 [1.0]

3 [1.3]

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

B6C3F1 MICE FEMALE	0 mg/m3	2 mg/m3	15 mg/m3	30 mg/m3
<div>Disposition Summary</div>				
Animals Initially In Study	10	10	10	10
Early Deaths				
Survivors				
Terminal Sacrifice	10	10	10	10
Animals Examined Microscopically	10	10	10	10
ALIMENTARY SYSTEM				
Liver	(10)	(0)	(0)	(10)
Necrosis				1 [2.0]
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
None				
HEMATOPOIETIC SYSTEM				
Lymph Node, Bronchial	(5)	(6)	(5)	(6)
Pigmentation	2 [1.0]	3 [1.0]	1 [1.0]	6 [2.7]

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B6C3F1 MICE FEMALE

0 mg/m3

2 mg/m3

15 mg/m3

30 mg/m3

INTEGUMENTARY SYSTEM

Mammary Gland
Inflammation, Acute

(10)

(0)

(0)

(10)
1 [1.0]

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx
Metaplasia, Squamous

(10)

(8)
1 [1.0](10)
6 [1.0](10)
9 [1.2]Lung
Hemorrhage
Inflammation, Chronic Active(10)
1 [1.0]

(10)

(10)

(10)

Pigmentation
Alveolus, Infiltration Cellular, Histiocyte

4 [1.0]

3 [1.0]

10 [1.3]

3 [2.0]

10 [2.0]

10 [3.0]

10 [3.0]

Nose
Olfactory Epithelium, Accumulation, Hyaline
Droplet

(10)

(0)

(0)

(10)
2 [1.0]Respiratory Epithelium, Accumulation, Hyaline
Droplet

5 [1.0]

4 [1.3]

SPECIAL SENSES SYSTEM

Eye
Cornea, Necrosis

(10)

(0)

(0)

(10)

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2 mg/m3

15 mg/m3

30 mg/m3

Harderian Gland
Inflammation, Acute(10)
3 [1.0]

(0)

(0)

(10)
7 [1.0]

URINARY SYSTEMKidney
Nephropathy(10)
1 [1.0]

(0)

(0)

(10)
1 [1.0]

*** END OF REPORT ***

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